

Title (en)
METHODS FOR THE MANUFACTURE OF PROTEOLYTICALLY PROCESSED POLYPEPTIDES

Title (de)
VERFAHREN ZUR HERSTELLUNG PROTEOLYTISCH VERARBEITETER POLYPEPTIDE

Title (fr)
PROCÉDÉ POUR LA FABRICATION DE POLYPEPTIDES TRAITÉS PROTÉOLITIQUEMENT

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Application
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Abstract (en)
The present invention relates to the use of Lys-C for proteolytically processing a single-chain botulinum neurotoxin serotype B (BoNT/B) or F (BoNT/F) by hydrolysis to produce di-chain botulinum neurotoxin serotype B (BoNT/B) or F (BoNT/F), as well as related methods.

IPC 8 full level
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Citation (applicant)
• WO 2009014854 A1 20090129 - ALLERGAN INC [US], et al
• WO 0033863 A2 20000615 - BIOTECON GES FUER BIOTECHNOLOGISCHE ENTWICKLUNG & CONSULTING MBH [DE], et al
• EISELE ET AL., TOXICON, vol. 57, no. 4, 2011, pages 555 - 65
• KRIEGLSTEIN, EUR J BIOCHEM, vol. 188, 1990, pages 39
• KRIEGLSTEIN, EUR J BIOCHEM, vol. 202, 1991, pages 41
• KRIEGLSTEIN, J PROTEIN CHERN, vol. 13, 1994, pages 49
• LACY ET AL., NAT. STRUCT. BIOL., vol. 5, no. 10, 1998, pages 898 - 902
• DASGUPTA; SUGIYAMA, BIOCHEM. BIOPHYS. RES. COMMUN., vol. 48, 1972, pages 108 - 112
• KOZAKI ET AL., INFECT. IMMUN., vol. 10, 1974, pages 750 - 756
• SHONE ET AL., EUR. J. BIOCH., vol. 151, 1985, pages 75 - 82
• DEKLEVA; DASGUPTA, BIOCHEM. BIOPHYS. RES. COMMUN., vol. 162, 1989, pages 767 - 772
• DEKLEVA; DASGUPTA, J. BACT., vol. 172, 1990, pages 2498 - 2503
• MITCHEL; HARRINGTON, JBC, vol. 243, 1968, pages 4683 - 4692
• SEBAIHIA, GENOME RES., vol. 17, no. 7, 2007, pages 1082 - 1092
• ALTSCHUL, J MOL BIOL, vol. 215, 1990, pages 403
• NILSSON ET AL., ANN. REV. BIOPHYS. BIOMOL. STRUCT., vol. 34, 2005, pages 91 - 118
• J. GREEN: "Recombinant DNA Principles and Methodologies", 1998, MARCEL DEKKER INC.
• SAMBROOK ET AL.: "The Condensed Protocols: From Molecular Cloning: A Laboratory Manual", 2006, COLD SPRING HARBOR LABORATORY
• SAMBROOK ET AL.: "Molecular Cloning: A Laboratory Manual", 2000, COLD SPRING HARBOR LABORATORY
• HARLOW; LANE: "Antibodies, A Laboratory Manual", 1988, CSH PRESS
• KOHLER; MILSTEIN, NATURE, vol. 256, 1975, pages 495
• GALFRE; MILSTEIN, METH ENZYMOL, vol. 73, 1981, pages 3
• SCHIER ET AL., HUMAN ANTIBODIES HYBRIDOMAS, vol. 7, 1996, pages 97
• MALMBORG ET AL., J. IMMUNOL METHODS, vol. 183, 1995, pages 7
• WRIGHT DS; GRAHAM LD; JENNINGS PA, BIOCHIM BIOPHYS ACTA, vol. 1443, no. 3, 22 December 1998 (1998-12-22), pages 369 - 74
• K. SUGIMURA; T. NISHIHARA, J. BACTERIOL., vol. 170, 1988, pages 5625 - 5632
• NONAKA T ET AL., J BIOL CHEM., vol. 272, 1997, pages 30032 - 30039
• NONAKA T ET AL., J BIOCHEM., vol. 124, 1998, pages 157 - 162
• HORI T ET AL., ACTA CRYSTALLOGR D BIOL CRYSTALLOGR., vol. 57, 2001, pages 361 - 368
• PEARCE LB; BORODIC GE; FIRST ER; MACCALLUM RD, TOXICOL APPL PHARMACOL, vol. 128, 1994, pages 69 - 77
• HABERMANN E; DREYER F; BIGALKE H, NAUNYN SCHMIEDEBERGS ARCH PHARMACOL., vol. 311, 1980, pages 33 - 40
• DASGUPTA, TOXICON, vol. 22, 1984, pages 415
• SATHYAMOORTHY, J BIOL CHEMISTRY, vol. 260, 1985, pages 10461
• RUMMEL ET AL., MOL MICROBIOL., vol. 51, 2004, pages 631 - 43
• DASGUPTA B. R. ET AL., TOXICON, vol. 22, no. 3, 1984, pages 414 - 424
• "Remington's Pharmaceutical Sciences", MACK PUBLISHING COMPANY
• JOST, DRUGS, vol. 67, no. 5, 2007, pages 669
• DRESSLER: "Botulinum Toxin Therapy", 2000, THIEME VERLAG
• SEBAIHIA ET AL., GENOME RES., vol. 17, no. 7, 2007, pages 1082 - 1092

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